



High-End System for the Fast and Efficient Production of Complex Metal Parts by Means of Additive Manufacturing



EOS M 100: Tried-and-Trusted EOS Quality at an Attractive Investment Volume

The size and modular design of the EOS M 100 make it ideal as an entry level model for additive manufacturing. In terms of process and component quality, it corresponds to the EOS M 290, the leading system on the market for DMLS.

Reproducible component quality, simple and fast handling, high cost efficiency

- The beam quality and stable performance of the 200 watt fibre laser guarantee optimum, constant processing conditions for the production of high-quality components.
- The smaller laser spot with excellent detail resolution is ideal for manufacturing highly complex, sophisticated DMLS components.
- The building volume and efficient recoating and exposure strategy reduce secondary time, so that parts can be produced quickly and efficiently in small quantities.
- Thanks to the modular inner design and the powder supply bin, setup and shutdown only take minutes, changing material is straightforward and maintenance is done quickly.
- The peripheral devices are matched to the industrial manufacturing process and ensure minimum powder contact.

Technical data EOS M 100

Building volume	Ø 100 mm x 95 mm (Ø 3.9 in x 3.7 in) height, incl. build platform
Laser type	Yb fibre laser; 200 W
Precision optics	F-theta lens; high-speed scanner
Scanning speed	up to 7.0 m/s (23 ft./sec)
Focus diameter	40 µm
Power supply	200 - 240 V
Power consumption	max. 1.7 kW / average 0.60 kW
Inert gas supply	max. 4,000 hPa, 50 l/min
Inert gas consumption	for flooding: up to 600 l / during building: up to 2,5 l/min

Dimensions (W x D x H)

System	800 mm x 950 mm x 2250 mm (31 x 37 x 89 in)
Recommended installation space	min. 1.00 m x 3.00 m x 2.5 m (3 x 10 x 8 ft)
Weight	580 kg

Software

EOSPRINT, EOS RP Tools, Cambridge or Magics RP and other modules

Materials*

EOS CobaltChrome SP2 (CE-certified, CE 0537), EOS StainlessSteel 316L, EOS Titanium Ti64

Optional accessories

EOSTATE Laser, powder conveying and sieving module**, wet separator, blasting cabinet

* Further materials on request
** Currently under development

EOS GmbH
Electro Optical Systems
Corporate Headquarters
Robert-Stirling-Ring 1
82152 Krailling/Munich
Germany
Phone +49 89 893 36-0
Fax +49 89 893 36-285

Further EOS Offices

EOS France
Phone +33 437 49 76 76

EOS Greater China
Phone +86 21 602307 00

EOS India
Phone +91 44 39 64 80 00

EOS Italy
Phone +39 02 33 40 16 59

EOS Japan
Phone +81 456700250

EOS Korea
Phone +82 2 6330 58 00

EOS Nordic & Baltic
Phone +46 31 760 46 40

EOS of North America
Phone +1 248 306 01 43

EOS Singapore
Phone +65 6430 04 63

EOS UK
Phone +44 1926 67 51 10

www.eos.info • info@eos.info

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